

ABSTRACT OF THE DISCLOSURE

Without performing a channel reservation, an arbitrary radio
5 communication with other surrounding radio communication devices may
be carried out by setting up a receiving slot according to the amount of
receiving data. Each radio communication device may only manage the
number of its own receiving slots so as to secure the channel required for
communication by its own determination, without needing a process
10 which is accurately synchronous with other radio communication devices.
The radio communication device on the data transmission side monitors,
by receiving the beacon, the increase in the number of the receiving slots
of the radio communication device on the reception side, so as to transmit
the data immediately when the number of the receiving slots increases.
15 The reception acknowledgement (ACK) information from the reception
side radio communication device is written in the beacon and returned.